

Oscar, Geiger Split On Outcome

Dormitory Board Votes Permanent Open House

Open house for women will no longer be limited to specific occasions in the permanent dormitories, but will be from 3:00 p.m. until 12 p.m. Saturday nights, and from 2:00 p.m. until 9:00 p.m. on Sundays, according to a recent decision of the Dormitory Board.

Permanent open house will be on a trial period until the Christmas vacation when a permanent policy will be decided. Heretofore open house has only been permitted when special affairs, such as dances, took place on campus; approval by the Dormitory Board was necessary for each individual case.

Last year a group of students "more mature" than most applied for and were given permission to have open house Friday and Saturday nights in the Senior House, but because of frequent abuse of this privilege it was discontinued during the spring term, stated Professor L. F. Hamilton, chairman of the Dormitory Board. At one time, when the undergraduate dormitories applied for the open house privilege they were refused because of the "construction of the buildings."

Professor Hamilton pointed out that it was only a short time ago that the Institute was off-limits to several girls' colleges because of insufficient regulation by the school, a situation which will not develop again, it is hoped. Residents were reminded that the Burton Room and Crafts Lounge are open to women visitors any day of the week until 12 midnight.

Flying Club Gets Another Cessna For Night Flying

Open Ground School To Show Action Films On Radio Navigation

"Bedford Tower, this is Cessna 89N requesting clearance for take off," barked through the control tower's loud speaker, as the Tech Flying Club's new Cessna 140 halted before the runway. Earlier, Thomas R. Cuthbert '50, President of the club and Leonard O. Nippe, '50, tested the ship and closed the deal.

At present, Edward H. Jacobson, '50, Operations Manager, was taking us (the plane and me) up for a spin. Now, back through our earphones came, "Cessna 89N cleared into position and hold." And a moment later "Cessna 89N clear for take off." After using about one-fourth the length of a runway that a laboring jet had just barely got off on, we were aloft in the flying club's third plane.

Two Make First Solo

In the forenoon we had watched William H. Enders, '50, and John K. Dawson, '50, solo for the first time. Charles E. Richborough, '50, a former navy pilot and instructor had been flying and instructing for the club most of the day, and now, we too, were taking advantage of the sunshine.

Somewhere over Boston, Ed gave (Continued on Page 8)

Occupants Of Unusual House To Be Warmed By Sun's Heat

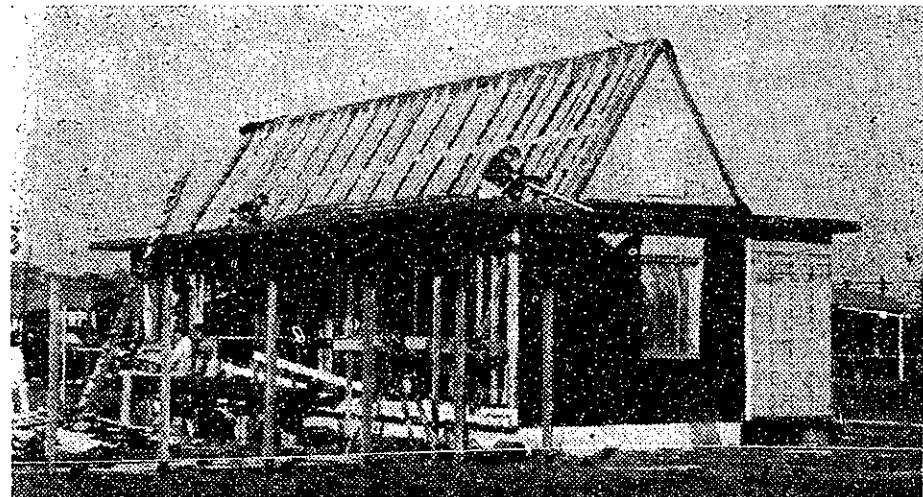


Photo by Honigsberg
A view of the partially constructed house. Workmen are shown starting construction of roof which will carry "Solar Heat Collectors."

By Marvin C. Grossman

Ever hear people complain about fuel bills, especially after a severe winter, similar to the one which engulfed our city last year? It seems that certain scientists had similar troubles, and decided to do something about it.

In fact, you might say they had a bright idea. Why not use the sun's energy for heating? Sounded good, and perhaps it would be feasible to store up this energy during the day, and in some way get it back when the sun wasn't shining.

Experiments Begin On Solar Energy

As the Cambridge winters became worse, Dr. Godfrey L. Cabot decided that perhaps Technology experimenters could do something to save this wasted heat. Consequently, a "Solar Energy" Commission was formed.

A detailed technical report,

jammed with such phrases as, "Each line is provided with a calibrated thin-plate orifice, connected to a ligroin-water-filled inverted manometer," reveals that, once upon a time, a little shanty had been built on the campus for the purpose of studying the economic aspects of this radiant energy.

Evidently the experiments were successful, and it was decided that it might be possible to construct a solar-heated home for practical as well as experimental purposes. In other words, the scientists asked, "Why not build a solar house, and then get someone to live in the thing?"

Sun-Heated Home Now Being Built

Down by the Smith House, the spectator may observe the direct results of these experiments. A real honest-to-goodness solar house is being built, and not only that,

(Continued on Page 4)

TECH FLYING CLUB CLINCHES DEAL

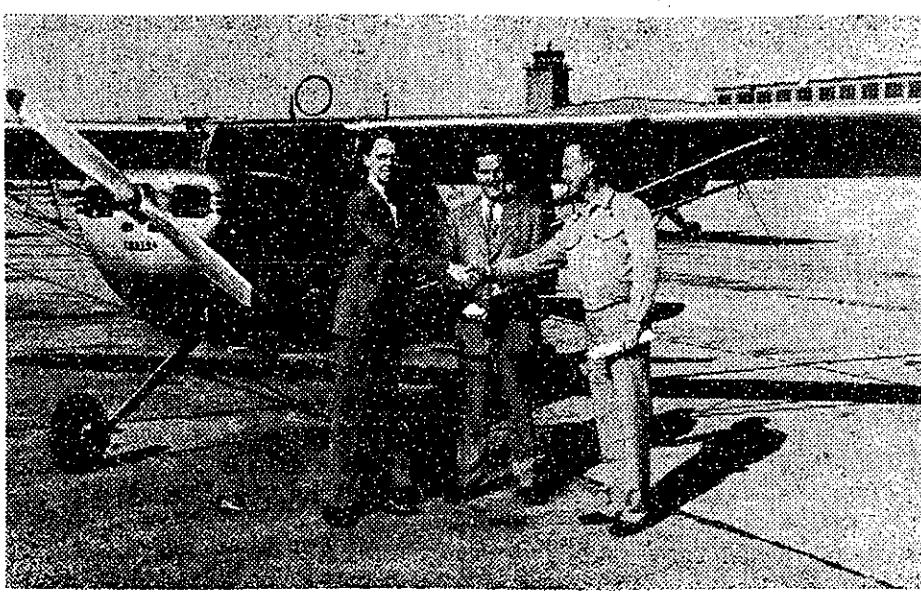


Photo by Nippe

Tom Cuthbert (left), shakes with Ray Wallace, former owner of the Cessna 140, as John Griffin, transfers the papers.

More 'Shmoos' Demand Obeyed

J. P. Committee Plans Additional Ticket Sale

The J. P. Committee has decided to sell more tickets for the Saturday night "shmoo" party because of the large demand for tickets. This marks the first time that such a procedure has been followed by the Committee. Roy Jenkins, in charge of ticket sales, announced that tickets for this party will go on sale Wednesday, November 10, at \$2.40 per couple.

Options for the Prom will be redeemed from Tuesday, November 9, to Friday, November 12. Table reservations will be made at the same time according to the procedure outlined in the mimeographed sheet handed to all purchasers of options. The following are the table accommodations available: 18 tables in the ballroom, seating 7 couples each; 38 tables on the ballroom floor seating 5 couples each; and 35 tables in the ballroom foyer seating 5 couples each. All reservations will be made on a first come, first served, basis.

A slight readjustment of the J. P. Committee was necessitated when Jim Baker resigned from the offices of Publicity Chairman and Editor-in-Chief of the J. P. magazine. His duties were assumed by Harris B. Stone. The other members of the committee are Jack Reeves, chairman; Tom Eggert, Alan Vort and Hans Eckhardt.

Nomination Forms Will Be Due Nov. 10

The fall elections for the Senior Week Committee for the Class of 1949 (10 men), the Senior Ring Chairman for the Class of 1950, and the Junior Prom Committee for the Class of 1951 (5 men), will be held Tuesday, November 23.

All nomination forms must be affixed with the signatures of 10% of the respective class. Petitions for the candidates from the Class of 1949 must have 95 signatures; the Class of 1950, 113 signatures; and the Class of 1951, 94 signatures. These nominations must be turned in by 5 p.m., Wednesday, November 10, to the Walker Memorial Committee office.

Candidates must present a 3" x 5" full-face photo to obtain a nomination form. Two similar additional photos must also be submitted. Sponsors' signatures must be both written and printed and as many nominations in their own class may be signed as they desire.

Sophs, Frosh Clash Tomorrow At Briggs Field

Climaxing a month of intensive preparation, the classes of '51 and '52 will clash in a five-hour battle royal tomorrow afternoon for Tech's traditional Field Day laurels. Five athletic events, the first of which gets under way at 12:00 noon, plus a tug-of-war and the renowned glove fight are slated for the afternoon of Sophomore-freshman competition.

Which class — Soph or frosh — sports the best chance of a victory tomorrow? According to Oscar Hedlund, veteran track coach and Grand Swami of Field Day prognosticators, the Sophomores should win in a walk.

But Ivan J. Geiger, director of athletics, has come forth to oppose Oscar's astute estimate with a prediction of his own, entering for the first time the risky business of predicting the Field Day outcome. In Mr. Geiger's opinion Field Day will be a nip-and-tuck battle with the frosh gaining victory by a one-point margin.

Here's how the two men rate the Field Day events:

OSCAR Sophs Pts. Frosh Pts.

	Sophs Pts.	Frosh Pts.
Football	4	3
Swimming	3	3
Tennis	3	3
Tug-of-war	3	3
Crew	3	3
Relay Race	3	3
Glove Fight	4	4
TOTALS	19	12

IKE Sophs Pts. Frosh Pts.

	Sophs Pts.	Frosh Pts.
Football	4	3
Swimming	3	3
Tennis	3	3
Tug-of-war	3	3
Crew	3	3
Relay Race	3	3
Glove Fight	4	4
TOTAL	11	12

With the point scale allotted to each event a tie is impossible, according to C. John Jacoby III, '50, chairman of the Field Day committee. Leaders of both the Sophomores and freshmen are anticipating a victory for their own class, and—as indicated in the predictions of Oscar and Mr. Geiger—a considerable difference of opinion exists as to the relative merit of the two classes.

Organize Marshals, Ushers

At a meeting in 10-250 on Monday, the ushers and marshals for Field Day received final instructions for regulating tomorrow's activities from Jacoby.

The conduct of Field Day is planned along lines similar to those of last year except that no proportional system for counting gloves from the Glove Fight will be employed. The team capturing the largest number of gloves will be winner, regardless of the relative number of men from each class participating.

In addition, a distinctive signal for indicating the start and finish of the fight will be employed, in an attempt to eliminate the confusion that existed last fall.

FIELD DAY SCHEDULE

Time	Event	Place	Points
12:00 noon	Tennis	Westgate Courts	3
1:00 p.m.	Swimming Meet	Alumni Pool	3
1:30 p.m.	Crew Race	Charles River	3
2:00 p.m.	Tug-of-War (First Pull)	Briggs Field	
2:15 p.m.	Football Game (First Half)	Briggs Field	
3:00 p.m.	Relay Race	Briggs Field	3
3:15 p.m.	Tug-of-War (Second Pull)	Briggs Field	
3:30 p.m.	Football Game (Second Half)	Briggs Field	4
4:15 p.m.	Tug-of-War (Third Pull)	Briggs Field	3
4:30 p.m.	Glove Fight	Briggs Field	4

The Tech



VOL. LXVIII

FRIDAY, NOVEMBER 5, 1948

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NO. 41

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News and Editorial—Room 307, Walker Memorial, Cambridge, Mass.

Telephones K1 rkland 7-1881, 7-1882.

Business—Room 335, Walker Memorial. Telephone K1 rkland 7-1881.

Mail Subscription \$3.00 per year, \$3.00 for two years.

Published every Tuesday and Friday during college year, except during college vacation.

Entered as second class matter December 9, 1944, at the Post Office, at Boston, Mass., under the Act of March 31, 1879.

Represented for national advertising by National Advertising Service, Inc., College Publishers Representative, 420 Madison Ave., New York, N. Y.

Night Editor: Sander Rubin, '50
 Assistant Night Editor: Donald A. Young, '50

FIELD DAY

The advent of Field Day the traditional rivalry between the freshmen and sophomore classes reaches its peak. Tonight the two groups are holding separate meetings to spur their class to victory. It is to be hoped that the enthusiasm which is encouraging on the campus will not get out of hand and end in displays that will neither bring glory to the class nor credit to the school. The surplus energy will be given plenty of rein on Saturday when the class of '51 battles the class of '52 in more or less organized mayhem.

Field Day is one of the oldest Technology sports events and has undergone a number of changes since it was first instituted. In past years it has featured enough rough play to warrant a good deal of criticism. To our knowledge one man has been fatally injured and another crippled for life in a few of the rougher games of yesteryear. The day is still a hard-fought one but the major portion of the rough play has been eliminated to make way for the better regulated games.

At the same time the importance of Field Day has decreased to the point where it no longer draws the interest and attention of upperclassmen. Part of this may be due to the lack of organized participation except for the marshals and ushers. Part may be due also to poor planning in the past for the entertainment offered after the battle. The dance has never featured a hotel background rather than the usual Morris Hall mausoleum. The festivities bring with them the tired musty atmosphere of Briggs Field.

Among the other activities that diminish the social prominence of Field Day are the two big week-ends of the Junior Prom and Techsopoppin. The latter, although a newly conceived idea with only one year's trial behind it, has already seriously threatened the position of Field Day by appealing to all classes of the Institute. The traditional clash between the frosh and sophs must perk up and provide a unified program to compete in the fall schedule. Although primarily for the two classes directly battling it out Field Day will die out without the interest and support of the upperclassmen.

appeal if a re-evaluation of the sports were made. The tug-of-war and the football game are fine to watch, but I question the wisdom of their inclusion in the Field Day program.

Many objections can be given to a football game between the frosh and Sophs. As for the sport itself: a football squad which hopes to avoid injuries must be conditioned, must have good coaching, and must have ample replacements. None of these three requirements are met. In addition, it would seem to be a much better policy to engage in Field Day sports which are a part of the intramural program. Football, as such, is not.

Much can be said for a policy of sports on Field Day which are also sports in the intramural competition. In such a situation frosh and Sophs need not cut in intramural sport practices for Field Day practice, and such a policy would seem to induce more men to go out for some of these intramural sports.

My suggestion is very simple. In the place of a sloppy and uninspiring football game, substitute a frosh-Soph basketball game. Both the frosh basketball squad and the Soph candidates for the varsity would be given an additional boost, and the development of the teams for Field Day would in reality not only be individual class preparation, but preparation for the Institute's athletic teams.

To an upper classman it appears that the social prominence of Field Day has decreased both to the frosh and Sophs, and also to their upperclass brother.

As regards the upperclassmen, their growing attitude of indifference can be laid to several factors. At the forefront is the fact that frosh-Soph rivalry lives only in the Dorms and Fraternities, and has little existence for the much larger number of commuters. In addition, the past few years has seen the growth and emergence of other activities which tend to take the spotlight from Field Day. Techsopoppin, Tech Show, and Drama-shop are but a few which could be mentioned.

Shifting to the participants themselves, I feel strongly that Field Day would have an increased

Steel Stretched, Ruptured By Prof. In Basement Lab

Physicists have often been described as a humorless lot. This accusation is obviously false, for no other science exhibits such a Rabellaisian touch in its nomenclature. The slug has delighted freshmen for decades.

Graduate students in the allied fields of metallurgy and mechanical engineering have not been neglected. They have been presented with two physical properties called suggestively "creep" and "stress rupture."

Who's A Creep?

Introduced to the Institute twenty years ago Creep research is being carried on today by Professors MacGregor and F. H. Norton. The Ceramics Department, by whom they are employed, has established a Creep lab in Room 2-047 in the basement marked, enlighteningly, "Research." Professor Norton labors in this subterranean abode on work sponsored by the D.I.C.

The Long Creep

Fascinated by its macabre name, I asked the Professor: "Just what goes on in a Creep lab?"

He smiled faintly. "Course XV man, eh?"

Aloud he explained. Steel is heated to temperature of 800° F. to 2000° F. and stretched by small constant loads to measure the rate of flow or how much the metal stretches over a period of months or even years.

I caught a glimpse of the apparatus in the basement. It is a great improvement over the Medieval rack. One sample of steel was stretched in this manner for eight years.

The Fast Creep

Those who consider Creep interesting but time-consuming will find Stress Rupture less tedious and more spectacular. Steel rods are subjected to temperatures of 1350° F. to 1800° F. and loads of over 30,000 lbs. per square inch. When, at last ("boingnggg") the metal snaps, only about 400 hours have elapsed.

While Professor Norton works chiefly for Babcock and Wilcox, boilermakers, Professor Grants' men in the Stress Rupture labs in Room 8-309 do research on metals with more romantic uses such as in gas turbines and jet engines.

Hot Creep?

Special problems are posed by the higher temperatures. If steel is to be heated to 1500° F. the apparatus must be made of metals that will remain rigid at this temperature. Like the frictionless plane, such metals are not obtainable at the Coop.

Opportunities for positions in creep or stress rupture research are rather limited despite the fact that few students have ever heard of them. Once a lab is built research consists mainly of infrequent measurements of the length of the metal.

JAZZ RECORDS

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JELLY ROLL MORTON'S
 NEW ORLEANS MEMORIES

ART HODE'S HOT JAZZ

A BLUE NOTE

AND

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Fraternity Findings

tryside for hours. Later they returned to the S.A.E. house for their Halloween party.

It was a big "enjoy," with "Goblin Gibby" Clarke mixing witches-brew, Tom Pamphier ladling it out, and Stan Sheets creating dark corners. Rich Rorschach was in charge.

Among the numerous places on their Oct. 30th itinerary, the witches and goblins descended upon the Phi Sigma Kappa house and touched off the spark of merriment traditionally associated with Halloween.

The Alpha Club was honored Wednesday, the 27th, by having as a dinner guest President-Designate James Killian. After dinner the group entered into a lively discussion period. Similar get-togethers are planned for the future by the Alphas.

Dancing and singing under the cornstalks was featured at the joint DTD-DU party, given in the DU house. Don Pierce captured the costume prize as a Roman Gladiator in a tinfoil toga. Press Jones handled arrangements.

LEAVE YOUR FILMS

AT

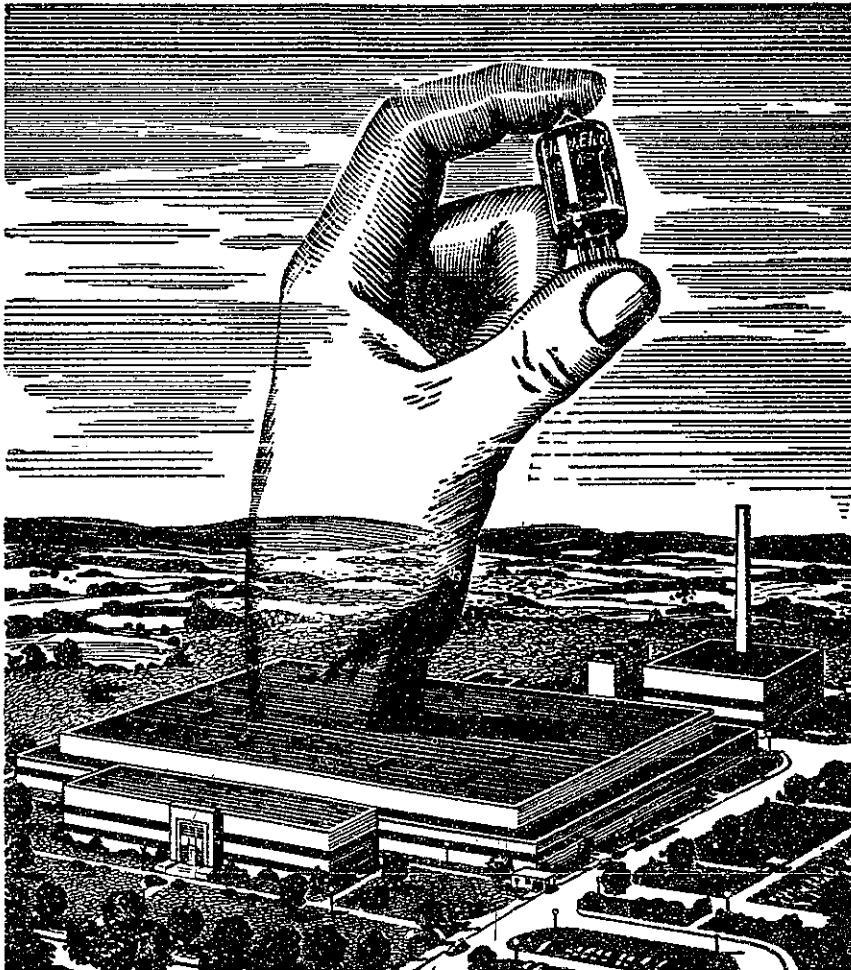
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Just to give your
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Western Electric



SYSTEM SINCE 1882

David I. Israel, '49

PLACEMENT INFORMATION

You may sign for interviews in Room 7-101 with the following companies. Be sure that you have passed in personnel records as no interviews will be allowed unless your folders are in the Placement Bureau prior to your interviews.

Kaiser Services, Oakland, Cal., Nov. 8 & 9; II, XV.

General Electric Co., Schenectady, N. Y., Nov. 8, 9 & 10; VI, II, XVI, VIII, IX.

Nepa Project, Oak Ridge, Tenn., Nov. 9; I, XVI, II.

Linde Air Products Company, Tonawanda, N. Y., Nov. 9; II, X, XV, VI, V.

Radio Corporation of America, Camden, N. J., Nov. 9 & 10; II, VI, VIII.

Imperial Paper and Color Corp., Glens Falls, New York, Nov. 10; X.

Bendix Radio, Baltimore, Maryland, Nov. 12; VI.

Philadelphia Electric Co., Philadelphia, Pa., Nov. 15; II, VI.

Lukens Steel Company, Coatesville, Pa., Nov. 15 & 16; II, III.

Republic Steel Corporation, Cleveland, Ohio, Nov. 16; X, II, VI, III.

The Brown Instrument Company, Philadelphia, Pa., Nov. 16; VI, VIII, II.

United Aircraft Corporation, East Hartford, Conn., Nov. 17; XVI, II, IX.

Shell Oil Company, New York, New York, Nov. 17; X, II, VI, VIII, I, V.

Shell Development Company, Emeryville, California, Nov. 17; X, V, II, III.

E. I. duPont de Nemours & Co., Inc., Wilmington, Del., Nov. 17 & 18; X, V, II.

Cars Fire Hazard Near Grad House

The M.I.T. Safety Council has announced that a serious hazard has been created by double and triple parking on Amherst Street at the rear of the Graduate House. The Cambridge Fire and Police departments stated that, in case of fire, it would be difficult if not impossible to get fire apparatus into effective position.

Check-ups show that much of this parking is done by students who have not allowed sufficient time to get to class and thus find difficulty in parking elsewhere. The police warn that this practice is not only illegal but endangers the safety of others.

According to the Metropolitan Police, no parking is allowed in front of the Graduate House Gate on Memorial Drive. The fire department depends upon this space for access to the front of the Graduate House.

Although the no-parking area has not yet been marked off, the police request that no one park on Memorial Drive in front of the Graduate House.

THE TECH

TECHMEN TAGGED; CAPITALIST CONDONED



Photos by Simmons and Astrachan

While the manager of the Cosmopolitan Factory on Amherst Street double parks daily with impunity, cars of Senior House residents have been tagged by the Cambridge Police for parking between 2:00 and 6:00 a.m. Police say students should give businessmen a break.

12 M.E.V. Generator Will Use High Pressure Insulating Gas

Construction of the twelve million electron volt generator next to the swimming pool is well under way, with the Sawyer Construction Company driving piles and laying electric conduits to building eight, the power source for the new generator.

An electrostatic generator of the famous Van de Graaff type, the new generator will be in a steel tank which will insulate the terminal by enclosing it in an envelope of nitrogen or carbon dioxide under 27 atmospheres of pressure. The gas will probably be reinforced with one of the superior insulating gases such as freon or sulfahexachloride, and will enable voltages to be built up which would ordinarily ground themselves in spectacular bolts of lightning.

Early Summer Operation

According to Dr. John G. Trump, designer of the machine, it is expected that voltage can be produced by early summer, and the machine will be able to accelerate positive ions within a few months. The heavier metal portions of the generator are being made at the Navy Yard, the only nearby establishment with facilities for handling the heavy construction.

Research on the atomic nucleus, including biological studies of the

medical properties of radiation, will be done with the generator, which will work on parallel lines with the old Van de Graaff on Vassar street.

World's Highest Voltages

The highest voltages in the world will be available with the new electrostatic generator, up to four times as high as have ever been produced with the old generator. The generator is particularly valuable in that this particular type can be used to accelerate positive ions of masses one and two to extremely high velocities, where they can be magnetically sorted out for different energy levels and used to bombard atomic nuclei.

Flying Club

(Continued from Page 1)

me the wheel. Since I had never even been in a small plane before, I recalled how handy ground training is. Ed mentioned that the club has just started conducting a ground school every Monday from 5:00-6:00 p.m. and again at 7:00-8:00 p.m. in Room 20-E-011. Here, they show CAA films on all phases of aviation, have outside instructors, tower operators, etc., to speak and answer questions. The school, open to all, is placing special emphasis on radio navigation at present.

Night Flying Possible

While cruising along, we decided to experiment with our radio equipment. We tuned in some music from WBMS and flew the beam, aided by the "loop." Though only one plane is equipped with a direction finder, two of the planes are equipped for night flying.

After giving Simmons a buzz (she said she heard us too), we headed back and called:

"Bedford tower, this is Cessna 89N entering base leg—over."

The Tower replied, "89N, number two to land on runway 29."

"Roger, 89N." And thus ended our little pleasure jaunt.

To show that a plane can come in handy, Yerwith K. Whitney, '49, and Joseph P. Day, '49, club secretary, hopped down to New York to vote on Election Day. Such luxury can be gained by joining the club for the \$80.00 initial "equity" fee, plus \$2.00 per month.

Campus Focal Point

WALKER MEMORIAL DINING SERVICE

OPERATED BY THE INSTITUTE

FOR TECH MEN AND THEIR FRIENDS

MORSS HALL

BREAKFAST 7:30 - 11:00 A.M.

LUNCHEON 11:00 - 2:00 P.M.

SUPPER 5:00 - 7:00 P.M.

PRITCHETT LOUNGE

11:00 A.M. - 12 MIDNIGHT

THE TECH

CALENDAR OF EVENTS

FRIDAY, NOVEMBER 5

Lecture Series Committee. "Conflict in the Middle East." Dr. John S. Badeau, President of American University in Cairo. Room 10-250, 1:00 p.m.

Mechanical Engineering Department. Seminar: "The Brittle Fracture of Metals." Nicholas Grossman. Room 3-470, 4:00 p.m. Coffee will be served at Headquarters from 3:30 to 4:00 p.m.

Technology Christian Association and National Student Association. Last day of drive for T.C.A. and World Student Service funds.

SATURDAY, NOVEMBER 6

Field Day. Class of 1951 vs. Class of 1952. Tennis match, Westgate Courts, 12:00; swimming meet, Alumni pool, 1:00; crew race, 1:30; tug-of-war, football game, relay race, Brigg's Field, 2:00; glove fight, 4:30, Brigg's Field; dance, Morss Hall, Walker Memorial, 8:00 to 12:00 p.m.

Nautical Association. Erwin H. Schell Regatta. Allegheny, Bowdoin, Boston University, Brown, Coast Guard, Haverford, McGill, Miami, M.I.T., Navy, Williams and Yale. Sailing Pavilion, 1:00 p.m. Soccer Team Match at University of Connecticut, 2:00 p.m. Men's Glee Club. Concert with Bradford Junior College Glee Club, Haverhill, Mass., 8:30 p.m.

SUNDAY, NOVEMBER 7

Nautical Association. Erwin H. Schell Trophy Regatta. Sailing Pavilion, 10:00 a.m.

MONDAY, NOVEMBER 8

Civil and Sanitary Engineering Department. Sanitary Engineering Seminar: "Opportunities for Sanitary Engineers in Stream Pollution Control." Carl E. Schwob, U. S. Public Health Service. Room 1-236, 1:00 p.m.

Technology Matrons. The Book Club. Mrs. Harold Fairbairn, who has recently returned from England, will discuss current English books. Emma Rogers Room, 2:45 p.m.

Cross Country Team. New England Intercollegiate Athletic Association of America meet. Franklin Park, 3:00 p.m.

Meteorology Department. Seminar: Lecture by S. Duvdevani, head of Dew Research Station, Israel. Room 12-182, 4:00 p.m.

Mathematical Society. "Elements of Set Theory." Dr. Felix Browder. Room 4-270, 5:00 p.m.

TUESDAY, NOVEMBER 9

Acoustics Laboratory. Seminar: "A Null Method of Measuring Acoustic Impedance." William Ihde, General Radio Company. Room 20E-125, 4:00 p.m.

Mechanical Engineering Department. Meeting of Seniors and Faculty members for coffee. Emma Rogers Room, 4:00 to 6:00 p.m.

Eta Kappa Nu. Business meeting. Faculty Lounge, Walker Memorial, 5:15 p.m.

WEDNESDAY, NOVEMBER 10

Soccer Team. Match at Brown University, 2:00 p.m.

Civil and Sanitary Engineering Department. Seminar: "Nuclear Fission Operations and the Sanitary Engineer." Arthur E. Gorman and Dr. Abel Wolman, U. S. Atomic Energy Commission. Room 1-190, 4:00 p.m.

Electrical Engineering Department. Staff Colloquium: "Communications Acoustics." Dr. Leo L. Beranek. Room 10-275, 4:00 p.m.

Metallurgy Department. Colloquium: "Spectrographic Analysis of Metals." John Sterner, Baird Associates, Inc. Room 2-390, 4:00 p.m.

Catholic Club. Business and discussion meeting. Room 6-120, 5:00 p.m.

Institute of the Aeronautical Sciences. "Instrumentation in Aeronautical Engineering." Dr. Charles S. Draper. Room 3-270, 5:00 to 6:00 p.m.

Pershing Rifles. Meet in uniform in front of Room 1-087, 5:05 p.m. Selection of unit to march in Armistice Day parade.

Staff Players of M.I.T. Supper meeting. Emma Rogers Room, 6:00 p.m.

THURSDAY, NOVEMBER 11

Armistice Day. Holiday.

Hillel Foundation. "Survey of Jewish Culture." Rabbi Maurice Zigmund.

Tyler Lounge, Walker Memorial, 5:00 p.m.

FRIDAY, NOVEMBER 12

Mechanical Engineering Department. Seminar: "Modern Methods of Obtaining Low Temperatures." Walter C. Nason, Jr. Room 3-470, 4:00 p.m. Coffee will be served at Headquarters from 3:30 to 4:00 p.m.

Dramashop. "Charlie's Aunt" will be presented at the Peabody Playhouse, 357 Charles Street, Boston, 8:30 p.m.

SATURDAY, NOVEMBER 13

Modern Languages Department. Graduate language examinations. Room 3-440, 2:00 to 4:00 p.m.

Dramashop. "Charlie's Aunt" will be presented at the Peabody Playhouse, 357 Charles Street, Boston, 8:30 p.m.

EXHIBITIONS

The exhibition of ancient Peruvian textiles will be on display in Lobby of Building 7 until November 20.

Photographs by Egon C. J. Egone will be shown in the Photographic Service Corridor of Building 11 through November 30.

DISTINGUISHED LECTURE

The third annual lecture of the Arthur Dehon Little Lectureship will be delivered by Dr. Robert E. Wilson, Chairman of the Board, Standard Oil Company of Indiana, in Morss Hall, Walker Memorial, on Tuesday evening, November 23, at 8:30 p.m. His subject will be "Research on a Single Reaction and Its Social Effect."

X-RAY PROGRAM

The Medical Department offers free X-ray chest examinations to all members of the staff, students, and employees who have not yet taken advantage of this important opportunity. Examinations may be made without appointment daily between 2:00 and 4:00 p.m. during November. If examinations show conditions requiring further attention a notification will be sent. If the X-ray is normal no report will be made.

The Calendar of Events is published weekly on Friday and contains announcements for the following week. It is sent without charge to all members of the staff and the heads of various organizations. It will be mailed to others for one dollar a year, payable in advance at the Office of the Editor, Room 7-204, not later than noon on Monday prior to publication date. Material for the Calendar, November 19 to November 26 is due November 12.

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M.I.T. Sailors Win From 13

Only Princeton Trips Team In 2 Regattas

On Sunday afternoon, Tech's star sailors were victorious in the Brown Invitational Regatta. Facing the competition of Yale's Monetti and Coulson, plus a Brown contingent sailing in their own boats on a river they knew well, Tech gained 74 points to defeat seven other colleges.

The combination of a four knot tidal current and almost no wind made the consistent winning of races a test of the utmost skill. In the last race, Greenbaum seesawed for 20 minutes trying to cross the line, which was at times only a few feet away. A faint breeze would carry him forward, then the tide would take him slowly back.

Finally he crossed the line in second place with four of his competitors still hanging onto the leeward buoy awaiting rescue by the crash boat and the other two patiently seesawing. Danny Greenbaum in Division B was high-point man for the day amassing 39 points.

Also sailing on Sunday, John Lawson and Bob Nickerson lost to Princeton by a scant two points. At the end of the six-race series Tech was tied for first place with Princeton with 14 points apiece followed by Yale with six points.

In the race which was sailed to break the tie, John Lawson ran onto a sandbar while passing the lead boat. Princeton won the race with Yale coming in second and Tech third. John Lawson won nine points in Division A, while Bob Nickerson gained seven in Division B.

Solar House

(Continued from Page 1)

but a family is going to live in it. No one knows exactly who, but apparently it might be a Westgate couple.

Heat Circulated By Water

The unfinished house is a rather odd looking structure, and resembles a box with an oblong peak sitting on it. In the peak will be a 1320 gallon water tank, which will store the water heated by the "solar heat collectors" on the south roof.

When the sun shines, the water is heated and passed on through the tank. When there is no sunshine, the water flows through the ceiling of the entire house, heating it by radiation.

Stand-By Electric System Used

In case the temperature of the water falls too low, an electrical heating system will take over. The flow of water and temperature regulation is all taken care of by an electric thermostat system.

A Modern House

According to one of the designers, Mr. E. L. Czepke, the house is "extremely modernistic," with adequate facilities to provide for comfortable living. To install a solar heating unit in a house of this size would cost about \$1800, and this is amply paid back by the savings in fuel over one winter.

Ready For Occupancy Soon

It is hoped that the dwelling will be ready for occupancy in late December. Already under construction is the six foot fence, which will surround the house to keep interested spectators away. So if you want to take a look at "the house of the future," better get down there before the end of the week.

Midnight Bus to Wellesley SATURDAY NIGHTS

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AWAY FROM THE GRIND

By JOHN R. SEVIER

Every week over here at The Tech office, we have to clear away some of the forty or fifty-odd exchange papers in order to get to our typewriters. Usually, we look over the lead story to see if any sort of scandal (such as murder, rape, or embezzlement) took place on the campus that week.

Jeep vs. Sophomores

The University of Massachusetts has already had their annual Field Day, or at least the Tug-of-War part of it. The U. of M.'s Tug-of-War is a little different from Tech's. It seems that there's a pond about fifty yards wide that the losing team must wade through, from the end of a rope, that is.

Underhanded work entered the contest this year, however, when the freshmen secured their own end of the rope to a nearby telephone pole.

Confident of their strength, the frosh lost interest in the whole affair and failed to notice the sophomores hitching their end of the jeep to a jeep.

The pull of the freshmen proved too much for the jeep, however, and the sophs had to settle for a nice firm tree. In the end, the tree turned out to be stronger than the telephone pole and the Class of '51 emerged victorious.

Maybe some of our more ingenious sophomores could take a tip from the University of Massachusetts, or is that legal?

FIELD DAY RULES

Glove Fight: The object of the glove fight is rough and tumble, SPORTSMANLIKE competition between the freshmen and Sophomores. Any strategy intended to defeat this purpose would result in forfeiture of the fight at the judgment of the Field Day Committee.

Each participant in the glove fight shall be issued one glove. The members of the two classes shall be distinguished by gloves of an entirely different color. Spectators shall be outside of the roped-off field area. The members of the two classes shall be LINED UP in single file on the respective 20-yard lines. Additional lines shall be placed five yards back of the preceding line. ONLY after the classes are lined up in their respective positions shall the Marshals go down lines and hand out one glove to each man. Marshals shall inspect the contestants to see that each participant is wearing one glove.

The contest shall last for 20 minutes. A prearranged signal shall be given at the start, two minutes before the end of the fight, and at the conclusion. Marshals and Ushers shall be stationed around the enclosure to see that no one enters the fight after the signal to start. Unnecessary roughness is strictly prohibited, and it shall be the duty of the Marshals and Ushers to see that fair play exists at all times.

The right of final decision in regard to all matters during the progress of the fight shall lie with the Head Marshal. Scoring: A barrel shall be placed behind the fresh-

man goal and one behind the Sophomore goal. No fighting shall be allowed within ten feet of the barrels. The freshman barrel shall be guarded by two Juniors, the Sophomore barrel by two Seniors. These two men shall be in charge and responsible for the barrels and shall make the actual count at the conclusion of the contest.

Participants shall deposit the gloves captured in the barrel behind their own line. All gloves must be deposited in the barrel before the final gun if they are to count. A glove to count must consist of at least the finger portion of the glove, i.e. A total of five fingers or five thumbs or any combination of fingers and thumbs totalling five without the rest of the glove shall count as a glove. If torn in pieces, enough pieces must be brought in to make a full finger portion of the glove. The wristlet part of the glove, if brought in separately, shall not enter into the scoring.

The gloves are counted after the fight, the scorers taking them to the track house. Final scores shall consist of the number of gloves collected in the barrel. The class securing the greater number of the opposition's gloves shall be awarded the four points toward Field Day.

Crews Will Race Lions Tomorrow

Varsity, Jayvee Shells Row On Harlem River

In the first fall race in many years the M.I.T. varsity and jayvee crews will start against Columbia on the Harlem River this Saturday, November 6, in an informal practice race.

Coach Jim McMillin has picked three boats at random comprised of the aspirants to the varsity and jayvee squad so that he might have three boats of approximately equal speed and power. Columbia is expected to do likewise and thus give more men the chance to row in a fairly evenly matched race.

The crew has been working out since September 27 and according to the times of the few time trials that have been run so far they seem in very good shape for the fall season. The squad has been greatly helped by the excellent turnout of Sophomores from last spring's freshman aggregation. Their fine pep and spirit has put unusual spirit into the entire varsity squad.

(Continued on Page 5)

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Graduate study, leading to the Master's and Doctor's degrees, is offered in Ceramics, in Sanitary Engineering, and in most of the above professional courses.

For information about admission, communicate with the director of Admissions.

The Catalogue for the academic year will be sent free on request.

Veras Captains Soccer 2 Years

A.A. Head Received All-America Mention

By Dave Uline

Jim Veras, outstanding Tech athlete, is now entering his second year as captain of the varsity soccer team and is president of the M.I.T. Athletic Association. For his exceptional soccer playing last year, Jim received honorable mention on the All-America soccer team.

Although born in Brooklyn the 1948 soccer captain has migrated from the home of the tree. After playing three years of soccer and putting the shot at the High School of Commerce in New York, Jim entered Tech in June, 1943, and finished one term before entering the Army.

While in the Philippines, Jim played soccer with the Manila G.I. team. He was the only amateur on a team which won the Philippine Olympics. His teammates had just become acquainted with the Anopheles mosquito, and, likening the havoc Jim caused the opposition on the soccer field to the mosquito's tactics, they nicknamed him "Anopheles."

Veras reentered the Institute in June, 1946, and started playing soccer again that fall. Last fall he captained the team from his center-half position. His play was so effective that he was given honorable mention on the All-America soccer team, also was placed on the All-New England and All-North teams.

OUTSTANDING ATHLETE



Jim Veras, '49, is in his second year as soccer captain and is president of the Athletic Association this year.

He tried out for the United States Olympic team last year and reached the semi-finals largely, he claims, because a sizable group of friends was on hand to cheer him on. Jim says that cheering makes a tremendous difference to a team's spirit.

Becoming active in the A.A. when he was elected soccer captain, Jim was elected president of the A.A. last March. Many improvements in intramural sports and changes in the Tech athletic set-up have been made since Jim took office, but he cites the team of Mr. Geiger and Dean Baker and the perfect coordination between the former and the A.A. as responsible for these changes and improvements.

Winning a medal for the shot put
(Continued on Page 6)

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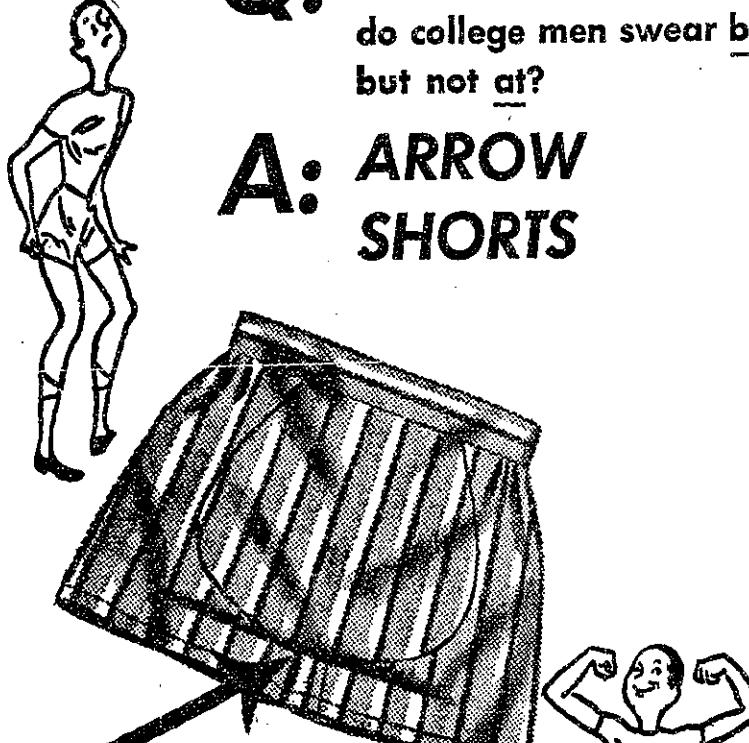
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'51 Favored In Football, Track; Swimmers Are Evenly Matched

Childs '52 Is Outstanding Runner, But Sophs Have Power And Balance

With Field Day only one day off, the Sophomores appear to have an edge over the freshmen in relay race, judging from the most recently recorded time trials. However, the swimming meet is expected to be close.

The Sophs relay team is a well-balanced unit, with 10 out of the 12 entrants running in the 25.0-26.0 second range. Ed Olney is the fastest with a 23.4 second trial to his credit, and Frasca is next with 24.0 seconds.

Experienced Sophs Meet '52 Netmen

Monsalvatge To Lead Soph Team Tomorrow

With practically the same team which swept all of its matches last Field Day and then went on to a highly successful intercollegiate season in the spring, the Sophomore tennis team faces a green but determined freshman squad on the Westgate tennis courts tomorrow at 12:00 noon.

The only man missing from last year's squad is Jerry Austen, who was injured while playing for the soccer team. Spearheading the Sophs will be Gerry Monsalvatge, champion of M.I.T., as a result of his victory in the Open tournament. He will be backed up by Drucker, Ney, Crocker and Sims of last year's team, plus Elliott and Esakov.

The freshmen's two stars, Beckett and Prugh, will play the first two singles positions, and they will be followed by Glantz, Geissler, Cohn and Spiegelman. All of these men, with the exception of the last, are leading the Freshman Tennis Tournament now in progress, Geissler being the first man to gain the round of 16 in that tourney. The meet will consist of three singles and two doubles matches.

Of all the participants on both sides, Ken Childs '52, has the fastest time trials, having run the 220 yards in 23.0 seconds. Childs was an outstanding runner in prep school and is an excellent prospect for Tech's track team.

The Sophomore team will consist of Olney, Frasca, McKee, Galan, Yancey, Hewitt, Thompson, Myers, Houska, Lindholm, Mascola, Magnus, Forbes, Pfankin and Schweizer.

Freshman Runners

Running for '52 will be Childs, Kraujlis, Robinson, Faust, Kelly, Maiback, Levin, Kaminsky, Camp, Oliver, DeMoss, Parry, Gelles, Ralston and Weissman.

Despite the fact that the Sophs have an advantage from the results of the time trials, there is always the possibility of an unforeseen event such as the dropping of a baton, which could drastically alter the situation. Such "unforeseen events" have been rather common in recent years.

Swim Meet A Toss-up

With times a closely guarded secret, and little information available on team lineups, the feeling prevails that the swimming meet will be a toss-up.

On the '52 side of the pool there is quite a bit of optimism on the part of coaches Frank Conlin and Lou Lehman that the Frosh have what it takes to win the event. Dick Pitler and his associates are slightly more conservative, venturing only to say that the meet will be close.

Soph Swimmers

Swimming for the class of '51 will be Ashby, Jones, Ong, Schwartzman Prigge, Elkine, Cooms, Schieser, Shaw, Shumaker, Fox, Stathopoulos, Kurtz van Mook, Fuller, Fowler, Lucas, Morgenthau and Hart. Garth Cooms won the 50- and 100-yard races in last year's intramural competition.

The frosh team is composed of breast strokers Otto Tonniesen, Jim Dorsey and Andy Sada, and free-stylers Tom Daly, Dick Baker, Bob Damon, Gene Lapaport and Jack Walsh.

Crew

(Continued from Page 4)

Contrary to popular rumor there will not be the usual collegiate crew races this Christmas in connection with the Orange Bowl game in Miami, Florida. Several crews, including Yale and U. of Penn, went down during last year's Christmas vacation and Tech's oarsmen had hopes of joining them this winter.

In the three shells racing at Columbia on Saturday the boating will be as follows: First Boat: bow, Bidwell; 2, Coville; 3, Garrett; 4, Trimble; 5, Monk; 6, Weber; 7, Clements; stroke, Saxe; cox, Rothen.

Second Boat: bow, Underwood; 2, Abbanat; 3, Schonewald; 4, Fonda; 5, Kerr; 6, Benfer; 7, Pendleton; stroke, Bjerke; cox, McGuire.

Third Boat: bow, Blum; 2, Michel; 3, Kurgla; 4, Keller; 5, Uhl; 6, Smith; 7, Lebowitz; stroke, Lehner; cox, Gordon.

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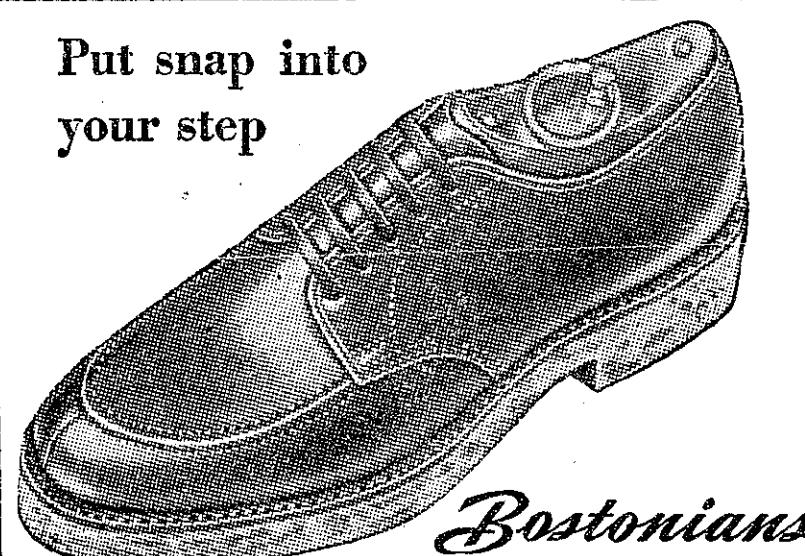
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T.C.A. Drive Short As Deadline Nears

Late Dorm Returns And Pledges May Meet Goal

With only six hours to go in its fund drive, the TCA is reportedly \$800 shy of its \$5400 goal. The campaign totals as of Wednesday noon, according to Donald Halliburton, were \$2614.32 for the TCA and \$1495.19 for the WSSF.

Of the three major living groups, the fraternities have shown to best advantage both as to total contributions and donations per man. There is still time for dorm residents and commuters to add to the total.

According to General Secretary Wallace Ross, the TCA prefers cash donations but urges all GI's who may have been withholding their contributions until their VA checks came through to pledge a sum payable anytime before January.

The goal of TCA and WSSF totals \$8100 this year compared with a combined goal of \$6750 last year. The increases in operating costs and costs of materials has required a higher goal this year.

Veras

(Continued from Page 5)

in a New York Borough meet and placing thirteenth in a field of 13 in a City meet—which he still likes to talk about—Jim decided to try out for the shot at Tech. He worked hard but was not very successful. As he puts it, "Coach Bob Bowie was very patient with me."

This is Jim's second year as soccer captain at Tech. He likes the sport here because it is played in an informal atmosphere, no regimentation. The play is strictly teamwork; Jim expects to be switched to a right-outside position soon in order that the line may have more scoring punch.

Veras believes that all students should try out for some kind of athletics and activities, regardless of ability, for the enjoyment and satisfaction they give. "Each game is a new thrill." Contrary to the general opinion about activities, Jim's grades and health have improved since he increased his extra-curricular activities.

Of interest to Tech's coeds and secretaries, Veras is at the moment unattached but is "romantically inclined."

COOP CLOSES ALL SATURDAY

The Harvard Cooperative Society has announced that, beginning in the near future, the Coop will no longer open on Saturday mornings.

The volume of business has not been sufficient to justify keeping it open, but the clerks who have worked on Saturday will now be on duty during the week to help alleviate the often crowded conditions at the Coop.

Telephone System Reopens Exchange

The exchange recently added to the Cambridge telephone system will not be for the convenience of the students residing in the dormitories. The telephone company admitted that the exchange, UNiversity, is somewhat misleading.

According to the Telephone Company, a University exchange existed some time ago, but it was absorbed by exchanges like Eliot and Trowbridge. The overcrowding of the present facilities has made the old University exchange essential for efficient operation of the telephone network of Cambridge.

Fashions

(Continued from Page 1)

day, November 12, at the Rindge Technical Auditorium in Cambridge. The tickets are on sale at the door and at the NSA office for \$1.80, \$1.20 and \$0.60.

The net proceeds of this project will be used to help supply food, clothing, and school materials under the World Student Service Fund, to the Free University.

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